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**NABL ACCREDITED AS PER ISO/IEC 17025:2005**

Job No.: CECTC/BBMP/KRIDL/W.No.09/2017-18

Date: 01.06.2017

## TEST REPORT

| | | |
|---|---|---|
| **CLIENT** | : | **Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore. |
| **AGENCY** | : | **Technical Manager (West),** KRIDL, Bangalore. |
| **NAME OF THE WORK** | : | Development of Civil works at BEL layout Park Ward No.09 Vidyaranyapura, BBMP, Bangalore. |
| **REFERENCE** | : | EE(Project)/Ynk Zone/WO/29/2016-17 Dated:27.01.2017 |
| **SAMPLE ID** | : | Cement |
| **SAMPLES SUPPLIED BY** | : | AGENCY |

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Bangalore

The results of the tests conducted on the cement sample are as follows:

| Sl.No | Descriptions | Test Method as per IS | Test Result | Requirements as per IS: 12269-1987 |
|---|---|---|---|---|
| 1 | a) Initial Setting Time | IS-4031 (Part -5) | 140 Minutes | Not Less than 30 Minutes |
| | b) Final Setting Time | IS-4031 (Part -5) | 340 Minutes | Not More than 600 Minutes |
| 2 | Soundness | IS-4031 (Part 3) by the Le-Chatelier method | 1 mm | Not more than 10 mm |
| 3 | Standard Consistency | IS-4031 (Part -4) | 28.50 % | - |

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Job No.: CECTC/BBMP/KRIDL/W.No.09/2017-18

Date : 01.06.2017

## TEST REPORT ON FINE AGGREGATES (SAND)
### IS 383-1970 (RA- 2002)

**Client** : **Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.

**Agency** : **Technical Manager (West),** KRIDL, Bangalore.

**Name of Work** : Development of Civil works at BEL layout Park Ward No.09 Vidyaranyapura, BBMP,

**Reference** : EE(Project)/Ynk Zone/WO/29/2016-17 Dated:27.01.2017

Date of Testing : 01.06.2017

Material : Sand

Total wt. of aggregates in gms = **1000**

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec.Limits For Zone-II |
|---|---|---|---|---|---|
| 10 | 0 | 0 | 0 | 100 | 100 |
| 4.75 | 75 | 7.50 | 7.50 | 92.5 | 90-100 |
| 2.36 | 139 | 13.90 | 21.40 | 78.6 | 75-100 |
| 1.18 | 219 | 21.90 | 43.30 | 56.7 | 55-90 |
| 600 Micron | 212 | 21.20 | 64.50 | 35.5 | 35-59 |
| 300 Micron | 252 | 25.20 | 89.70 | 10.3 | 8-30 |
| 150 Micron | 80 | 8.00 | 97.70 | 2.3 | 0-10 |

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## TEST REPORT ON COARSE AGGREGATES
### IS 383-1970 (RA- 2002)

**Client** : **Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.

**Agency** : **Technical Manager (West),** KRIDL, Bangalore.

**Name of Work** : Development of Civil works at BEL layout Park Ward No.09 Vidyaranyapura, BBMP,

**Reference** : EE(Project)/Ynk Zone/WO/29/2016-17 Dated:27.01.2017

Date of Testing : 01.06.2017

Material : 40mm Aggregates

Total wt. of aggregates in gms = **15000**

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec.Limits |
|---|---|---|---|---|---|
| 80 | 0 | 0 | 0 | 100 | 100 |
| 40 | 468 | 3.12 | 3.12 | 96.88 | 95-100 |
| 20 | 8420 | 56.13 | 59.25 | 40.75 | 30-70 |
| 10 | 3159 | 21.06 | 80.31 | 19.69 | 10-35 |
| 4.75 | 2365 | 15.77 | 96.08 | 3.92 | 0-5 |

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## TEST REPORT ON COARSE AGGREGATES
### IS 383-1970 (RA- 2002)

**Client** : **Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.

**Agency** : **Technical Manager (West),** KRIDL, Bangalore.

**Name of Work** : Development of Civil works at BEL layout Park Ward No.09 Vidyaranyapura, BBMP,

**Reference** : EE(Project)/Ynk Zone/WO/29/2016-17 Dated:27.01.2017

Date of Testing : 01.06.2017

Material : 20mm Aggregates

Total wt. of aggregates in gms = **5000**

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec.Limits |
|---|---|---|---|---|---|
| 40 | 0 | 0 | 0 | 100 | 100 |
| 20 | 236 | 4.7 | 4.7 | 95.3 | 95-100 |
| 10 | 2430 | 48.6 | 53.3 | 46.7 | 25-55 |
| 4.75 | 1871 | 37.4 | 90.7 | 9.3 | 0-10 |

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Job No.: CECTC/BBMP/KRIDL/W.No.85/CC Solid Block/2017-18 : 03.06.2017

## TEST REPORT ON CEMENT CONCRETE SOLID BLOCKS

*** Customer** : **Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, Bangalore.

*** Name of the Work** : Development of Civil works at BEL layout Park Ward No.09 Vidyaranyapura, BBMP, Bangalore.

**Reference** : EE(Project)/Ynk Zone/WO/29/2016-17 Dated:27.01.2017

**Sample Received on** : 02.06.2017

**Date of Testing** : 03.06.2017

**Size of Blocks** : 400mm x 200mm x 200mm

**Cross Sectional Area** : 80000 $mm^2$

**Technical Reference** : IS: 2185 (Part 1) - 2005

**No. of Blocks Tested** : 08

| Sl.No. | Block ID | Wt. in Kg | Failure load (KN) | Compressive strength ($N/mm^2$) | Requirement as per IS 2185 (Part 1) - 2005 |
|---|---|---|---|---|---|
| 1 | Block 1 | 36.1 | 259.5 | 3.24 | Minimum required Compressive Strength of Individual Units 3.20 $N/mm^2$ |
| 2 | Block 2 | 35.7 | 260.5 | 3.26 | |
| 3 | Block 3 | 33.1 | 263.8 | 3.30 | |
| 4 | Block 4 | 34.5 | 264.5 | 3.31 | |
| 5 | Block 5 | 35.6 | 261.8 | 3.27 | |
| 6 | Block 6 | 33.7 | 263.8 | 3.30 | |
| 7 | Block 7 | 35.7 | 262.7 | 3.28 | |
| 8 | Block 8 | 36.2 | 263.7 | 3.30 | |

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Job No.: CECTC-KRIDL-W.No.134-2015-16 Date: 14.06.2017

## KERB STONE (CORE) TEST REPORT

| | | |
|---|---|---|
| **Client** | : | **Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore. |
| **Agency** | : | **Technical Manager (West),** KRIDL, Bangalore. |
| **Name of Work** | : | Development of Civil works at BEL layout Park Ward No.09 Vidyaranyapura, BBMP, Bangalore. |
| **Reference** | : | EE(Project)/Ynk Zone/WO/29/2016-17 Dated:27.01.2017 |
| **No.of Sample Tested** | : | 03 |
| **Date of Testing** | : | 14.06.2017 |
| **Techinical Reference** | : | IS:516-1959 (Reaffirmed 1999), SP-24:1983. |
| **Grade of Concrete** | : | $M_{15}$ |

| Sl. No. | Dia of Core D (mm) | Height of Core H (mm) | Core Wt (Kg) | Density of Core (kg / $m^3$) | H / D | Correction factor (Based on H/D) | Failure Load (kN) | Core Strength ( $N/mm^2$) | Correction Factor for the Dia. (Strength of the Core x 1.08) | Corrected Cylinder Compressive Strength ($N/mm^2$) | Equivalent Cube Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 50.00 | 82.00 | 0.365 | 2266.99 | 1.64 | 0.960 | 25.90 | 13.19 | 14.25 | 13.68 | 17.10 |
| 2 | 50.00 | 71.00 | 0.320 | 2295.42 | 1.42 | 0.960 | 26.10 | 13.29 | 14.36 | 13.78 | 17.23 |
| 3 | 50.00 | 74.00 | 0.347 | 2388.18 | 1.48 | 0.960 | 26.70 | 13.60 | 14.69 | 14.10 | 17.62 |

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Job No.: CECTC/BBMP/PB/W.no.173/2016-17 Date: 07.07.2017

## TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.

Contractor : **Technical Manager (West),** KRIDL, Bangalore.

Name of the work : Development of Civil works at BEL layout Park Ward No.09 Vidyaranyapura, BBMP, Bangalore.

Reference : EE(Project)/Ynk Zone/WO/29/2016-17 Dated:27.01.2017

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 $mm^2$

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : $M_{15}$

Compressive Strength as on : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 09.06.2017 | 07.07.2017 | 8.120 | 383.6 | 17.05 |
| 2 | 09.06.2017 | 07.07.2017 | 8.093 | 380.1 | 16.89 |
| 3 | 09.06.2017 | 07.07.2017 | 7.918 | 402.5 | 17.89 |

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## TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.

Contractor : **Technical Manager (West),** KRIDL, Bangalore.

Name of the work : Development of Civil works at BEL layout Park Ward No.09 Vidyaranyapura, BBMP, Bangalore.

Reference : EE(Project)/Ynk Zone/WO/29/2016-17 Dated:27.01.2017

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 $mm^2$

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : $M_{15}$

Compressive Strength as on : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 09.06.2017 | 07.07.2017 | 7.920 | 380.1 | 16.89 |
| 2 | 09.06.2017 | 07.07.2017 | 7.983 | 374.5 | 16.64 |
| 3 | 09.06.2017 | 07.07.2017 | 8.001 | 370.3 | 16.46 |

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Job No.: CECTC/BBMP/PB/W.no.151/2016-17 Date: 07.07.2017

## TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.

Contractor : **Technical Manager (West),** KRIDL, Bangalore.

Name of the work : Development of Civil works at BEL layout Park Ward No.09 Vidyaranyapura, BBMP, Bangalore.

Reference : EE(Project)/Ynk Zone/WO/29/2016-17 Dated:27.01.2017

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 $mm^2$

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : $M_{15}$

Compressive Strength as on : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 09.06.2017 | 07.07.2017 | 8.164 | 383.6 | 17.05 |
| 2 | 09.06.2017 | 07.07.2017 | 8.172 | 371.4 | 16.51 |
| 3 | 09.06.2017 | 07.07.2017 | 8.185 | 390.2 | 17.34 |

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Reference : EE(Project)/Ynk Zone/WO/29/2016-17 Dated:27.01.2017

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 $mm^2$

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : $M_{15}$

Compressive Strength as on : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 09.06.2017 | 07.07.2017 | 8.172 | 393.6 | 17.49 |
| 2 | 09.06.2017 | 07.07.2017 | 8.168 | 402.5 | 17.89 |
| 3 | 09.06.2017 | 07.07.2017 | 8.189 | 400.1 | 17.78 |

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